Work	Order	ID	50296
7 7 O 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VIUVI		

F

July 14, 2009 11:42:00 AM



Page 1

Item ID:

D3140-101

Accept

Setup Start

Stop



**Revision ID:** 

**Start Date:** 

Item Name: Doubler

Required Date: 7/15/09

7/15/09

Start Qty: 4.00

Req'd Qty: 4.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan: ME Date: 09-07-15 Tooling:

Date:

Start Run



QC:

\_\_\_\_\_ Date: \_\_\_\_

**SPC (Y/N):** 

Date:

Stop



Sequence ID/ **Work Center ID** 

Operation Description Set Up/ **Run Hours** 

Draw Number

Draw Rev.

Plan Accept Qty Code

Reject Qty

Reject Insp. Number Stamp

**Draw Nbr** 

D3140

**Revision Nbr** 

Rev F

100

Waterjet

FLOW CNC Waterjet

FLOW WATER JET

1-Cut as per Dwg D3140 Dwg Rev: Deburr if necessary

B 9-8-17

110

Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

9-8-12

120

QC8- Inspect parts - second check

Memo

=) Doglar 13

QC

Quality Control

Memo

0.00

W/O:			WC	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Cate	gory:	_ NCR: Yes 1	No DQA:		Date:	
					QA: N/	C Closed:		Date:	
NCR:			WORK ORDI	ER NON-CONFORMA	ANCE (NCR)	)			
DATE	STEP	Description of NC		Corrective Action Section		Verifica		Approval	Approval
	JIL!	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Chief Eng	QC Inspector
							1		

.NOTE: Date & initial all entries

July 14, 2009 11:42:00 AM

Page 2

Item ID:

D3140-101

**Revision ID:** Item Name:

Doubler

F

**Start Date:** 

Required Date: 7/15/09

7/15/09

QC:

Start Qty: 4.00

Req'd Qty: 4.00



Accept



Setup Start

Stop



**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

**Process Plan:** 

Date: Date:

**Tooling:** SPC (Y/N):

Date:

Date:

Start Run

Stop



Sequence ID/ Work Center ID

130

Small Fab

Small Fab

Operation Description

Small Fab

Set Up/ **Run Hours** 0.00

Draw Number

Draw Rev.

Plan Code

Accept Qty

Reject **Qty** 

Reject Number Stamp

Insp.

Memo

Memo

Memo

1-Scuff surfaces with 80grit sandpaper per QSI 006 $\square$ 2-Deburr. $\square$  No sharp edges



140

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

09/08/13



150

Quality Control

QC3- Inspect Part Finish

0.00

0.00



W/O: WORK ORDER CHANGES						***	
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						-	
•							

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C	losed:	Date:

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC	Description of NC Corrective Action Section B		n B	Verification		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto

.NOTE: Date & initial all entries

#### Work Order ID 50296

July 14, 2009 11:42:00 AM



Page 3

Item ID:

D3140-101

Accept

Setup Start

Stop



**Revision ID:** 

F

Item Name: Doubler

Required Date: 7/15/09

7/15/09

Start Qty: 4.00

Req'd Qty: 4.00



**Cust Item ID:** 

**Customer:** 

Draw

Reference:

**Start Date:** 

**Approvals:** 

Process Plan:

Date: \_\_\_\_

Tooling:

Date:

Start Run

Date: \_\_\_\_\_

SPC (Y/N):

Set Up/

Date:

Stop

Sequence ID/ **Work Center ID** 

160

Packaging Packaging

Operation Description

Identify as per dwg & Stock Location:

QC21- Final Inspection - Work Order Release

**Run Hours** 

0.00

0.00

Number Rev.

Draw Plan Code

Accept Oty

Reject Reject Number Oty

Insp. Stamp

170

QC

Quality Control

Memo

Memo

0.00

0.00

09 68 117 H

Du	oopaoo =	tu .							
<b>W</b> /O:			WC	RK ORDER CHANG	ES				
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cateç	Jory:	_ NCR: Yes	No DQ	A:	Date: _	
					QA: N	C Close	d:	Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	ANCE (NCR	)			
DATE	0750	Description of NC	Corrective Action		on B	Verification		Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		ion C	Chief Eng	QC Inspector

.NOTE: Date & initial all entries

#### Picklist Print

July 14, 2009 11:42:00 AM

Work Order ID: 50296

Parent Item:

D3140-101RevF

Parent Item Name: Doubler



**Start Date: 7/15/09** 

Required Date: 7/15/09

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/	
Item Name	

Replacement Mfg/ Item ID

Purch

Bin Primary Item Location

Last Location

Route Seq ID

Unit of Measure Hand

Qty on Remaining

Qty Qty To Pick Issued Date Issued

Status

M2024T3S.032

Comments:

Purchased

No

100

sf

111.0100 0.1869

2024-T3 .032 sheet

Warehouse	Loc Qty	Loc Code	
<b>Location</b>			(5)
Main Warehouse			
MAT	111.01		
102942	1.5		
105555	5		
106272	8.47		
108595	3		
109240	7.02		
110778	34.02		
111699	49		11699 13 9-8-12
18147	3		



W/O:	WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No:	PAR #:	Fault Category:	NCR: Yes	No	DQA:	Date:
			QA:	N/C C	losed:	Date:

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC	C Corrective Action Section B ,		Verification	Annroyal	Annrossal	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
· · · · · · · · · · · · · · · · · · ·								

NOTE: Date & initial all entries

D3065-5DART AEROSPACE LTD	Work Order:	50296
Description: Doubler	Part Number:	D3140-101
Inspection Dwg: D3140 Rev: F		Page 1 of 1

		X First Art	icle	Prote	otype		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comn	nents
2.20	+/-0.030	2,190	×				
2.80	+/-0.030	2.791	*				
2.05	+/-0.030	7,044	*				
0.032	+/-0.010	.033	<b>X</b>				

Measured by: ₿		Audited by:	5.	Prototype Approval:	N/A
Date: 9_	8-12	Date:	09/12/18	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	07.09.06	New Issue	KJ/JLM 📈	E



			·
DESIG	4	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHECK	(EI)	APPROVED 11	DRAWING NO. REV. F
	MUNICIE		D3140 SHEET 1 OF 7
DATE		•	TITLE SCALE
06.1	0.06		DOOR NTS
Α		02.04.18	NEW ISSUE
В		03.01.23	REMOVE -65/-81/-83; ADD -301/-303
С		04.11.08	CHANGE DELASTEK SPEC. TEC-77; ADD PART MARKING; ADD NOTES 11, 12, 13; CHANGE ANGLE -95/-97/-98 TO 106
D		05.11.23	ADD -103/-104/-105/-106; REMOVE -67
E		06.06.09	1.75 WAS 1.88, 4.75 WAS 4.13 ON -08/-07, 1.00 WAS 1.20 ON -09/-10

ADD NOTE 14; CORRECT PART TITLE, NOW D3140-09/-92/-104 SHOWN D3140-10/-91/-103 OPPOSITE

released <sub>y</sub>
06.11.13 REPARTO
ENGINDERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO 50296 -
mf 09-07-15

QTY	QTY	QTY	QTY	QTY	QTY		
-05	-06	-07	-08	-09	-10	PART NUMBER	DESCRIPTION
X						D3140-05	DOOR
	X					D3140-06	DOOR
		Х				D3140-07	DOOR
			Х			D3140-08	DOOR
		1		Х		D3140-09	DOUBLER ASSEMBLY
			1		Х	D3140-10	DOUBLER ASSEMBLY
3	3					D3140-57	PAD
1	1					D3140-59	PAD
2	2					D3140-61	PAD
2	2					D3140-63	PAD
		1	1			D3140-69	PAD
		1	1			D3140-71	PAD
		1	1			D3140-73	PAD
		1	1			D3140-75	PAD
		1	1			D3140-77	PAD
		1	1			D3140-79	PAD
	·			1	1	D3140-85	ANGLE
1	1					D3140-87	DOUBLER
				1	1	D3140-89	DOUBLER
		1				D3140-91	DOUBLER
			1			D3140-92	DOUBLER
3	3					D3140-95	DOUBLER
1						D3140-97	DOUBLER
	1					D3140-98	DOUBLER
		1	1			D3140-99	DOUBLER
		2	2			D3140-101	DOUBLER
		1				D3140-103	DOUBLER
			1			D3140-104	DOUBLER
		1	<u> </u>			D3140-105	DOUBLER
			1			D3140-106	DOUBLER
1	1					D3140-241	DOUBLER
1		1				D3140-301	DOUBLER
	11		1		ļ	D3140-303	DOUBLER
					ļ		
				5	5	MS20426AD3-4	RIVET

06.10.06



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DESIGN 4	CB		ROSPACE LTD
CHECKED	APPROVED	DRAWING NO. D3140	REV. F SHEET 2 OF 7
DATE	L Va	TITLE	SCALE
06.10.06		DOOR	NTS



COMPOSITE LAYUP & BONDING I.A.W. DELASTEK PROCESS SPEC. TEC-77
MATERIAL STORAGE & HANDLING TO BE I.A.W. DART QSI 006
MAIN LAYUP USES FIBERCOTE E-761/7781 EPOXY FIBERGLASS.
FILL WITH EPOCAST 87269 OR MAGNOBOND 77 A & B AND MA560 FOAM/ NB-51/30 FOAM



FINISH: DUPONT HIGHBUILD GREY PRIMER 1144-S

MAKE PARTS IN ACCORDANCE WITH THE FOLLOWING TOOLS/MOLDS:

PART D3140-05	TOOL B30-23000-01T	
D3140-06 D3140-07	B30-23000-02T B30-23000-03T	
D3140-08 D3140-57	B30-23000-04T B30-23000-57T	SHOP COPY
D3140-57	B30-23000-571	RETURN TO
D3140-63	B30-23000-63T	ENGINEERING LINCONTROLLED GODIN
D3140-69	B30-23000-69T	UNCONTROLLED COPY SUBJECT TO AMENDMENT
D3140-71	B30-23000-71T	WITHOUT NOTICE
D3140-73 D3140-75	B30-23000-73T B30-23000-75T	WORK ORDER
D3140-77	B30-23000-77T	NO. 50296
D3140-79	B30-23000-79T	MF 09-07-15
D3140-89	D3140-89T1	



D3140-301

D3140-303

MATERIAL: 2024-T3 (QQ-A-250/4) 0.032 THICK (M2024T3S.032) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

D3140-301T1

D3140-303T1



MATERIAL: 2024-T3 (QQ-A-250/4) 0.020 THICK (M2024T3S.020) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 5052-H32/H34 (QQ-A-250/8) 0.040 THICK (M5052H32S.040) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: POLIMEX TR75 1" THICK 4.5 LB KLEGECELL



ALL DIMENSIONS IN INCHES



TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (M6061-T6S.063) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



DOUBLER TO SIT ON TOP OF FOAM AT THIS LOCATION



DOUBLER TO BE RECESSED FLUSH INTO FOAM AT THIS LOCATION



RUBBER STAMP WITH DART P/N D3140-05/-06/-07/-08 USING MIL-STD-130



PARTS MUST BE SCUFFED WITH 80 GRIT SANDPAPER PRIOR TO ACID ETCH AND ALODINE PER DART QSI 005 4.1



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